

## WHAT IS CLAIMED IS:

1                   1.     A burner with a plurality of fingers comprising:  
2                   a burner head having fingers corresponding in number to said plurality  
3                   and having a peripheral wall with a second plurality of ports positioned along the  
4                   peripheral wall of each one of said plurality of fingers;  
5                   a cap having an overlapping fingers corresponding in number to said  
6                   plurality of fingers and having a lip extending laterally beyond the peripheral wall;  
7                   a plurality of flame vents connecting adjacent ports along said  
8                   peripheral wall.

1                   2.     The invention as defined in claim 1 wherein each vent  
2                   comprises a recess, formed in at least one of said cap and said peripheral wall,  
3                   positioned intermediate adjacent ports.

1                   3.     The invention as defined in claim 2 wherein said recess  
2                   includes an expanded transfer area at an intermediate point between said adjacent  
3                   ports.

1                   4.     The invention as defined in claim 2 wherein said recess is  
2                   formed in said cap and bounded by a protruding lip.

1                   5.     The invention as defined in claim 4 wherein said lip comprises  
2                   a continuous wall along each said finger.

1                   6.     The invention as defined in claim 5 wherein said lip is  
2                   scalloped.

1                   7.     A burner for a cooktop comprising:  
2                   a base for mounting said burner in a cooktop;  
3                   at least one upper member defining at least in part a plurality of ports;  
4                   a collar carried by said base;  
5                   a stem carried by said at least one upper member;

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6 an indexer carried by at least one of said collar and said stem limiting  
7 insertion of said stem to at least one predetermined alignment, whereby said indexer  
8 aligns said at least one upper member in a said at least one predetermined alignment  
9 with said base.

10. The invention as defined in claim 7 wherein said base includes  
an ignitor element and wherein said predetermined alignment positions said ignitor  
element adjacent one of said ports.

11. The invention as defined in claim 7 wherein said at least one  
member comprises a burner head having a plurality of fingers with a peripheral wall  
enclosing a gas path and including a plurality of port openings.

1                   12. A cooktop burner comprising:  
2                   a body having a plurality of fingers extending outwardly from a  
3                   central body portion, said body comprising:

4 a burner head having a central wall, and a peripheral wall on the  
5 central wall including a plurality of openings forming ports;

6 a base including a head support for said head, and a support for an  
7 ignitor, said head support including a first indexer for limiting insertion of said head  
8 to at least one predetermined alignment with respect to said ignitor support; and

9 a burner cap including a covering wall positioned over said peripheral  
10 wall, a support for carrying said cap on said head, said support including a second  
11 indexer limiting insertion of said cap to a predetermined alignment with respect to  
12 said head.

1                   13. The invention as described in claim 12 wherein at least one of  
2    said indexers includes a spline.

1                   14. The invention as described in claim 13 wherein said at least  
2    one indexer comprises a plurality of splines.

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